SHINYBOW™USA

MULTIMEDIA AUDIO AND VISUAL

Instruction Manual

MODEL : SB-5688CT

8x8 HDMI-CAT5e/6 MATRIX SWITCHER

HDMI-CAT5e/6 MATRIX SWITCHER SERIES

Thank you for purchasing the SB-5688CT HDMI-CAT5e/6 Matrix Switcher. You will find this unit easy to install and highly reliable but it is essential that you read this manual throughly before attempting to use 8x8 HDMI-CAT5 Matrix switcher.

Part No.: ENCL005688CT0A0

SAFETY INFORMATION

1. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
2. Read all documentation before operating your equipment. Retain all documentation for future reference.
3. Follow all instructions printed on unit chassis for proper operation.
4. Do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
5. Make sure power outlets conform to the power requirements listed on the back of the unit.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
8. Mains voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
9. Power down & disconnect unit from mains voltage before making connections.
10. Never hold a power switch in the ON position.
11. Do not use the unit near stoves, heat registers, radiators, or other heat Producing devices.
12. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be Periodically blown free of foreign matter.
13. Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.
14. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
15. Non-use periods. The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.
16. Service Information Equipment should be serviced by qualifier service personnel when:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen, or liquid has been spilled into the equipment.
    C. The equipment has been exposed to rain
    D. The equipment does not appear to operate normally, or exhibits a marked change in performance
    E. The equipment has been dropped, or the enclosure damaged.

IMPORTANT SAFETY INSTRUCTIONS

To insure the best from this product, please read this manual carefully. Keep it in a safe place for future reference.

To reduce the risk of electric shock, do not remove the cover from the unit. No user serviceable parts inside. Refer servicing to qualified personnel.

To reduce the risk of fire, do not expose the unit to rain, water or excessive moisture.

Do not force switched or external connections.

When moving the unit disconnect the serial port connections first then the power cable and finally the interconnecting cables to other devices.

Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Use a clean dry cloth.

Installation of this unit should be in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold.

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CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK),

NO USER SERVICEABLE PARTS INSIDE,

REFER SERVICING TO QUALIFIED SERVICE PERSONAL.

WARNING!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

This symbol is intended to alert the user to the presence of uninsulated of uninsulated dangerous voltage within the products enclosure that enclosure tha may be of sufficientmagnitude to constitue a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operational and maintenance (serving) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarised) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.
To prevent electric shock, match wide blade of plug to wide slot, fully insert.

INTRODUCTION AND PACKAGE CONTENTS

INTRODUCTION

The SB-5688CT is high-performance 8x8 matrix routing switcher with eight (8) HDMI inputs and supports simultaneously eight (8) HDMI and eight (8) CAT5e/6 outputs. The SB-5688CT is based on HDBastT technology and that supports HDMI Video with embedded audio, RS-232, IR bi-directional, and Ethernet all over a single CAT5e/6 cable. With a signal bandwidth of 340Mhz, there is no signal degradation. High Definition Digital signals can be selected and distributed to any 16 outputs simultaneously. The Switcher is certified as being fully CEC and HDCP 2.0 compliant, HDMI V1.4a 3D formats, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. The SB-5688CT has one CAT5e/CAT6 and HDMI connector for each output, effectively making this an 8x16 switcher (same signal on both outputs). 1 CAT RJ-45 connection on each output extends the HDMI signal to remote location via HDBaseT CAT5e/6 HDMI Receiver SB-6335R. The EDID can be selected between seven (7) different modes. Control is provided via Front panel push buttons, IR remote or via RS-23020. An RS232 Windows GUI interface is provided for matrix routing.

PACKAGE CONTENTS

1. SB-5688CT Matrix Switcher
2. Operating Instructions
3. RS-232 V2.0 Protocol Instructions
4. Master wireless IR Remote Control (SW-5688)
5. 8 each; Individual wireless IR Control (SW-5688CT-IR01~IR08)
6. 19 inch Ear mount bracket (Part # 2U-440L)
7. IR Extender Transmitter (SB-101)
8. IR Extender Receiver (SB-100)
9. 2 each; IR Extender Cable 10 feet (3M)
10. CD Contents : This manual, Windows GUI, ISP V1.0 Windows driver
11. RS232 Cable 6 feet (2M)
12. Worldwide Universal Power Supply 100~230 VAC, AC 50/60Hz, 10A

FEATURES

Based on HDBaseT; bi-directional IR, RS-232, Multi format Audio, Ethernet and HD Video signals over a single CXAT5e/6 cable.

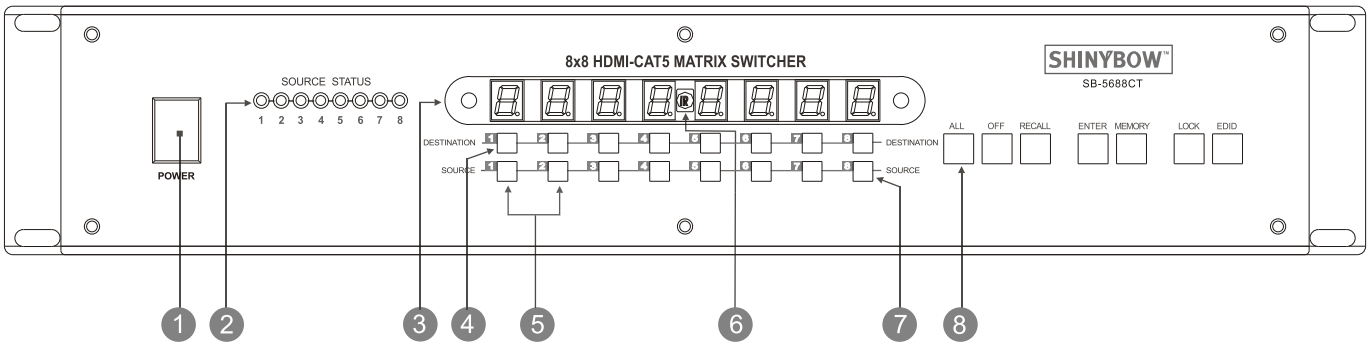
FEATURES

1. 8x HDMI source devices matrix switched to 8x HDMI and 8x CAT5e/6 Extender output devices.
2. Application HDBaseT IR, RS-232, Multi Audio Foramt and HD Video Signals over CAT5e/6 Cable.
3. HDMI digital Video w/embedded Audio, DVI format and CEC/HDCP 2.0 compliant
4. Worldwide control EDID modes for HD Video resolutions.
5. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 1.4a 3D formats.
6. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i & 1080p
7. Compatible with all HDMI source devices, PC monitors, Plasma HD display, HDTV and audio receivers/amplifiers.
8. Digital Video TMDS formats Resolution up to 1080P-60 with Deep color 36-bit.
9. Digital Audio Support :
   - Dolby TrueHD,
   - Dolby Digital,
   - Dolby Digital Plug/ex,
   - DTS,
   - DTS-HD,
   - DTS-HD Master,
   - DTS-EX
   - PCM, PCM2, LPCM2..
10. Various User Interface control:
    - Windows based GUI control via RS232 port
    - Front Panel push button
    - IR wireless remote control
    - Third party RS232 controller (via simple ASCII)
11. Support world wide control functions: ALL/OFF/RECALL/ENTER/MEMORY/EDID/LOCK
12. Support EDID modes :
    Internal modes : AUTO/1080P-2CH/1080P-5.1/1080P-7.1/1080i-2CH/720P-2CH
    External modes : Passing mode with learning function.
13. Automatic scanning input & output status via LED show on front panel.
14. Support IR Remote and IR Extender with distance up to ~ 1000' (300M) Maximum.
15. EDID configuration via Internal modes.
16. Consumer Electronic Control (CEC) switch all open or OFF

The Switcher will remember that last state during a power cycle.
When power is removed and resorted, the last configuration will be invoked.

FRONT PANEL

FRONT PANEL



1 POWER SWITCH

The power switch turns the unit on and off. The LED will illuminate red to indicate that the switcher is ON and is receiving power.
The Switcher will remember that last state during a power cycle.
When power is removed and resorted, the last configuration will be evoked.

2 INPUT STATUS DISPLAY

Input sources 1 to 8 LED illuminates blue to indicate that a video source is present on that input.

3 OUTPUT STATUS DISPLAY

Each Output (destination) Channel shows which input (source) is assigned.

4 DESTINATION SELECT BUTTONS

Separate outputs 1 thru 8 select buttons are provided for each destination assignment.
Routing can be Source to Destination or one source to multiple destinations.
Example : Press Destination 1,3,5 then press Source 2 will route Input 2 to Output 1,3,5 respectfully.

5 EDID MODE SELECT BUTTONS

Used to select EDID mode using buttons #1 thru #2

6 IR SENSOR

The IR sensor receives IR commands from the supplied remote controller or third party IR emitter.

7 SOURCE SELECT BUTTONS

Separate inputs 1 thru 8 select buttons are provided each source selection.

8 FUNCTION KEY - **ALL**

Disables (mute) video on all destinations OR Selects the same source to all destinations.
Option 1
- Press **ALL** followed by **OFF** button. The display will show " 0 " indicating all destinations have no video selected.

Option 2
- Press **ALL** followed by Source 1 thru 8. The display will show the Source selected.
- Press **ENTER** The pre-set source selection will be assigned all destinations.

FRONT PANEL

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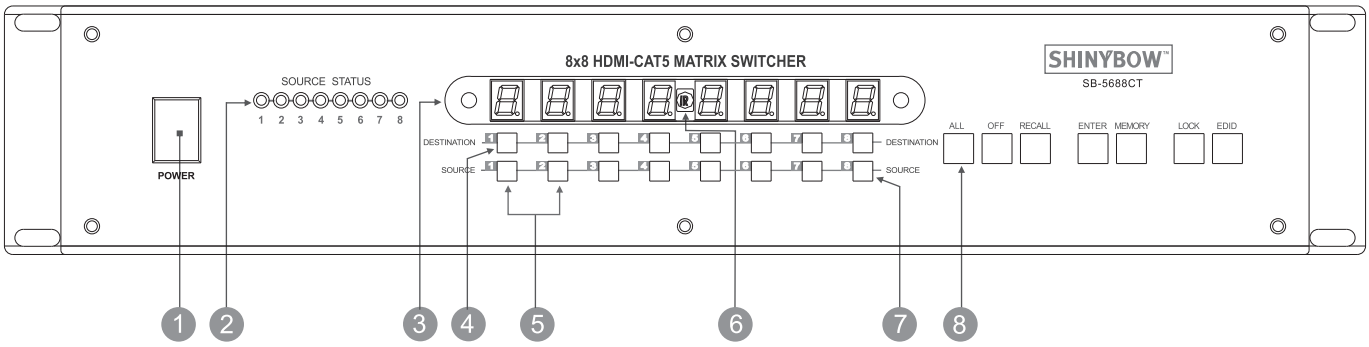

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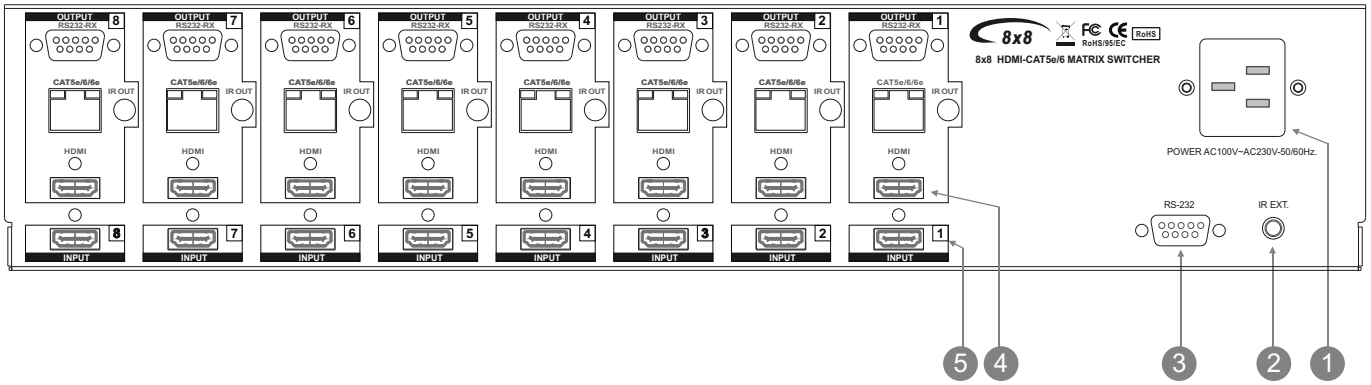
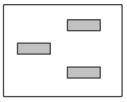


1 POWER INLET

The Switcher is fitted with a AC power plug input connector. Ensure that the used is of an approved type and is of sufficient current carrying connector capacity with the correct voltage and connector polarity. 100~240Volt AC, 50/60Hz power supply.



Power Plug:
Power input - AC100~240V,50/60Hz, 10A

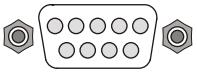
2 IR EXTENDER CONTROL

Support one of IR Extender
Extend distance maximum 300Meters / ~1000 feet
When you plug the External IR extender into the switcher, the front panel IR receiver remain active.

IR Extender Jack:
Female Jack - inner OD ϕ 3.5 mm

3 RS 232 CONNECTION (SWITCHER)

RS 232 control port to allow for interfacing to a PC, Such as a computer or touch panel control, to the switcher via this DB-9pin Female connector for serial RS-232 control.

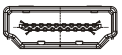


Remote port :
DB-9pin Female connector

4 OUTPUTS- 1,2,3,4,5,6,7 & 8 HDMI

Connect a signal link of HDMI direct digital video/audio to this Female HDMI connector. This connector supports HDMI digital video/audio and DVI digital video sources.

HDMI Digital Video/Audio, Connector with fix screw
Output 1 ~ Output 8



HDMI digital video/audio connector:
HDMI Female connector.

Note:
With the proper adapters, the switcher can be used with DVI digital video signals HDCP compliant.

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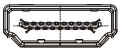
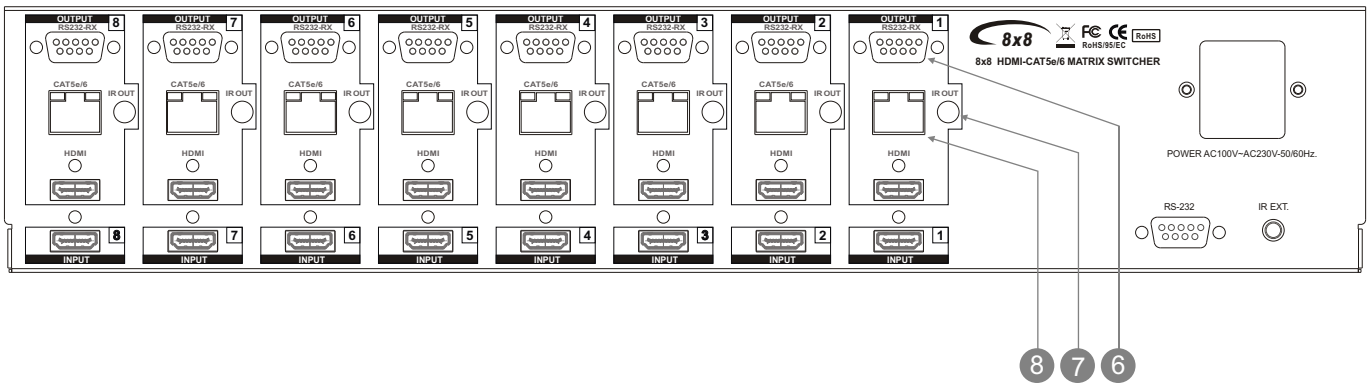


HDMI digital video/audio connector:
HDMI Female connector.

Note:
With the proper adapters, the switcher can be used with DVI digital video signals HDCP compliant. DVI does not support audio.

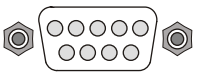
REAR PANEL

REAR PANEL



4 RS 232- 1,2,3,4,5,6,7 & 8 CONNECTION TO CONTROL ROOM

8x RS 232 control port to allow for interfacing to a PC,
Such as a computer or touch panel control, to the switcher
via this DB-9pin Female connector for serial RS-232 control.



Remote port :
DB-9pin Female connector

5 IR REMOTE - 1,2,3,4,5,6,7 & 8 CONNECTION TO CONTROL ROOM

Support eight of IR Extender to control eight rooms
Extend cable distance maximum 300Meters / ~1000 feet
When you plug the CAT5e/6 IR extender into the external port,
the room IR receiver remain active.

IR Extender Jack:
Female Jack - inner OD ϕ 3.5 mm

6 OUTPUT - 1,2,3,4,5,6,7 & 8 CAT

CAT Transmitter extend a signal link of HDMI / RS232 / IR Remote
to this RJ-45 Female connector via CAT5e/6 cable.
Connector with RJ-45 Output 1 ~ Output 8

CAT connector:
RJ-45 Female connector.

EDID FUNCTION

EDID function for HDMI Matrix Switcher

6.1 EDID status	To view the current **EDID** status.
Step 1 . Press **EDID** button	The button will flash blue and the display will show the current **EDID** Status.
Step 2 . Press **EDID** button	to exit.

6.2 EDID setup	To change the **EDID** setup
Step 1 . Press **EDID** button	The button will flash blue and the display will show the current **EDID** Status.
Step 2 . Press Input source #1 or#2 button row	to select **EDID** mode.

Repeatedly depressing the source **1** button will cycle **up** thru the options.
Repeatedly depressing the source **2** button will cycle **down** thru the options.

Options are :

Auto <Default>	All Outputs will be set to the highest common resolution of all connected display devices.
1080p/2CH	PCM 2CH, AC-3 2CH
1080p/ 5.1	PCM 2CH, PCM 5.1CH, AC-3 5.1CH, DTS 5.1CH, One Bit Audio 5.1CH, Dolby Digital+5.1CH, DTS HD 5.1CH, Multi Audio Format 5.1CH, 36Bit 3D.
1080p/7.1	PCM 2CH, PCM 7.1CH, AC-3 7.1CH, DTS 7.1CH, One Bit Audio 7.1CH, Dolby Digital+7.1CH, DTS HD 7.1CH, Multi Audio Format 7.1CH, 36Bit 3D.
1080i/2CH	PCM 2CH
720p/2CH	PCM 2CH
EXTERNAL(EtL)	Passing Source To Source Via Learning Destination EDID link to Input Source.

Step 3 . Press the **ENTER** button	To set **EDID** mode. The switcher will return to operation mode.

6.3 Auto mode definition	Common Resolution and Audio

Switcher will find highest common Resolution and Audio from all destination EDID to link Source.

Example for single source

Destination > press #1 and then Source > press #1

Destination device #1 will set to the highest common resolution and Audio of source #1

Example for multiple sources

Destination device #1, #2, #3 will be set to the highest common resolution and Audio available and source device #1 will output this same resolution.

EDID FUNCTION

6.4 EXTERNAL mode definition	Passing EDID from Source to Source

1. All destination have to select different source in EXTERNAL mode, Switcher will learn destination EDID and pass the selected source.
2. When destination #1,#2,#3 connected to the same source, Switcher will compose destination #1,#2,#3 to a new group under AUTO mode only.
   The others destinations will be in EXTERNAL mode .
3. To set up handshaking between a single destination and source:
   Press EDID button > Press destination 1 thru 8 > Press ENTER to confirm.
   Switcher will handshake and learn destination EDID to source device.
4. How to handshaking all destinations with selected source.
   Press EDID button > Press DEMO or ENTER button.

6.4.1 Single to Single (LED show : **EtL-1**)	Example : Output=#4 To Input=#1
Step 1 . Press the Destination #4 button row Then Press the Source #1 button row	Select the Destination #4 to Display the Source #1.
Step 2 . Press **EDID** button	The button will flash blue and the display will show the current EDID Status.
Step 3 . Press the Source #1 or #2 button row	To select the EDID **EXTERNAL** mode.
Step 4 . Press the Destination #4 button row	Learning the Destination #4 Display EDID.
Step 5 . Press **ENTER** button	To confirm entries.

6.4.2 Single to multiple (LED show : **EtL-2**)	Learning destination EDID link to all Sources
Step 1 . Press **EDID** button	The button will flash blue and the display will show the current EDID Status.
Step 2 . Press the Destinations #1~8 button row	Learning any 1~8 Destinations EDID.
Step 3 . Press **ALL** function key button	Learning any 1~8 Destinations EDID link to all sources.
Step 4 . Press **ENTER** button	To confirm entries.

6.4.3 Multiple to Multiple	Learning destination EDID link to Source each
Step 1 . Press select the different Source of Each destination.	All 1~8 Destinations Select the different Source.
Step 2 . Press the Source #1 or #2 button row	To select the EDID **EXTERNAL** mode.
Step 3 . Press **EDID** button	The button will flash blue and the display will show the current EDID Status.
Step 4 . Press ENTER button	To confirm entries.

SPECIFICATIONS

SPECIFICATIONS

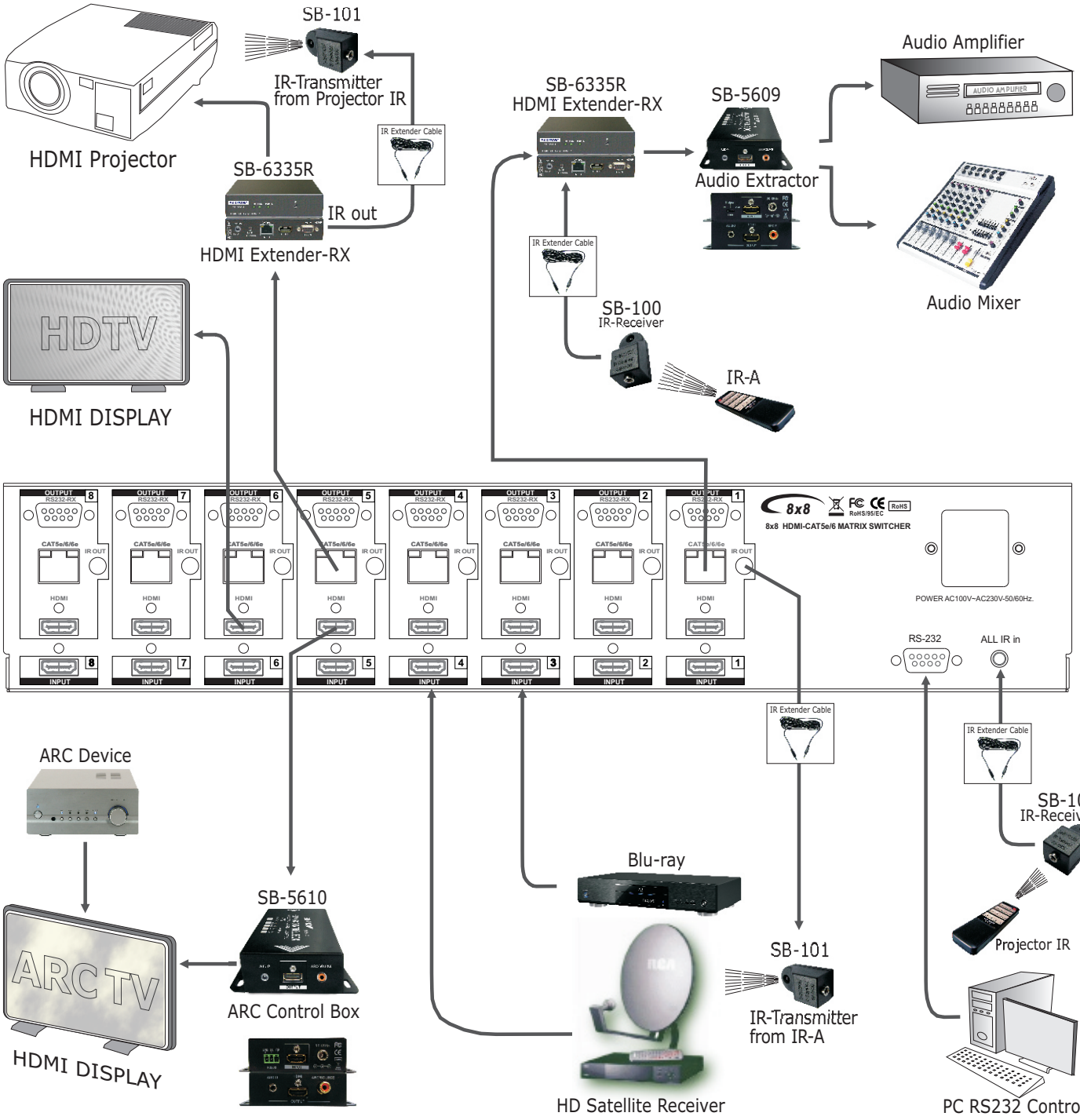
Type of HDMI Switcher	8x HDMI inputs To 8x HDMI and 8x CAT5e/6 Outputs Matrix Switcher
HDMI Support	HD 1080P-@60Hz, H36-bit Deep color, 3D of HDMI V1.4a formats.
HDCP / CEC Support	HDCP 2.0 Compliant, CEC Compliant.
Video Bandwidth	Double Data Rates: 340Mhz, Total 6.75Gbps bandwidth.
Digital Video Support	HD:480i/ 480p/ 720p/ 1080i/ 1080p up to 36bit deep color
Inputs	8x HDMI 1x AC 100~240VAC power supply 1x ALL IR in remote (to Switcher or to Room) 1x RS-232 to Switcher 8x RS-232 to Room
Outputs	8x HDMI 8x CAT5e/6 8x IR from Room (OD3.5m Jack), 8x RS-232 from Room
Digital Audio Support	Multi Audio Formats 5.1 / 7.1, MAT(MLP) Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6CH, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
Controls	IR Remote Controller 8x Room IR Remote Controller IR External port x 1 (OD 3.5mm Ear phone Jack) Select & Function buttons on front panel RS 232 series interface
Source Status	Automatically Scan Sources Inputs via LED show out
Function Control Key	ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
Infrared Frequency	38 Khz
IR External Distance	~1000 feet / 300 meters maximum.
CAT5e/6 Extender Distance	~300 feet / 100 meters maximum.
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	32°F - 100°F Operation(0℃ - 32℃)
Dimensions	LxWxH=19 ” x 9.85 ”x 3.50 ” (482mm x 250mm x 88mm)
Rack Mount	2RU High 19 ” Rack Mount #2U-440L (with rack mount)
Power Supply	AC 100~230 VAC 50/60Hz
Power Consumption	5880 mA Maximum
Safety Approvals	CE, FCC, RoHS (2002/95/EC).
Product Weight	4.75 Kgs / 7.91 lb

As product improvement is continuous, specifications are subject to change and without notice or liability.

TYPICAL APPLICATION

INSTALLING DIAGRAM

8x8 HDMI-CAT5e/6 MATRIX SWITCHER
Support HDBaseT IR, RS-232, Audio& HDVideo



Application HDBaseT IR, RS-232, Multi format Audio and HD Video signals to pass over CXAT5e/6 cable.

REMOTE CONTROL

Before making any connections to the switcher. Observe the following:

> Ensure the mains voltage supply matches the label on the supplied plug-Pack (+/- 10%)

> Ensure that the power switch is OFF

> Ensure that all system grounds (earth) are connected to a common point.

> Avoid powering equipment within a system from multiple power sources that may be separated by large distances

> Connect all audio video sources and destination equipment

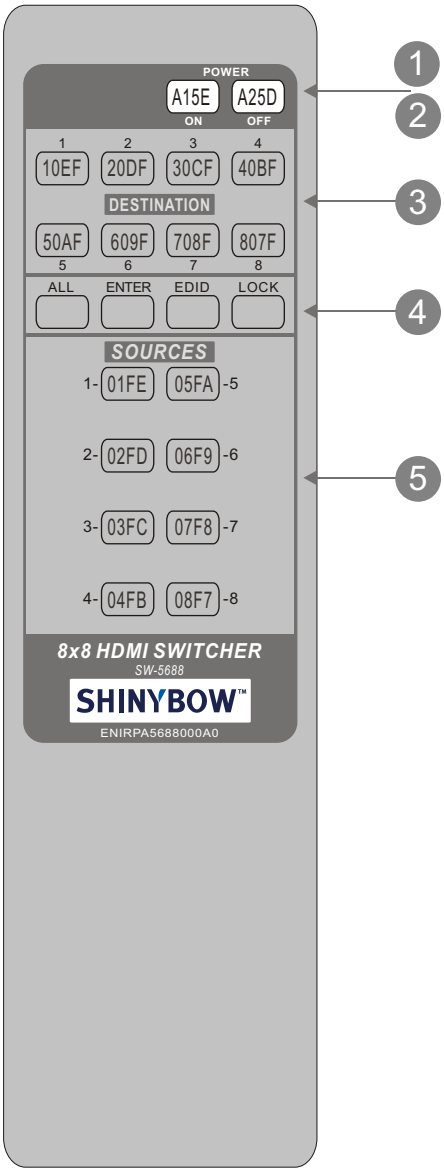
> power up all source and destination audio-visual sources

> For each destination output select the appropriate input source by using The front panel input 1~8 select buttons. The supplied IR remote control. Or through the RS 232 serial communications port.

> Upon power up the switcher will return to its last used setting before Powered down.

REMOTE CONTROL

IR REMOTE : SW-5688



14-1 IR REMOTE CONTROL KEY :

1 2 SWITCH POWER ON or OFF

Controller with a separate power ON and OFF

3 DESTINATION : 1 thru 8 OUTPUT SELECTION

Press the destination button to select the output display channel.

4 FUNCTION KEY

ALL - function selection button
ENTER - function selection button
EDID - function selection button
LOCK - function selection button

5 SOURCE : 1 thru 8 INPUT SOURCE SELECTION

Press input 1~8 sources with selection button

14-2 IR CUSTOM AND DATA CODES (NEC Standard)

HOW TO SETUP IR CODES :

CUSTOM CODE : 09F6

ALL : 09F6 B04F
ENTER : 09F6 B34C
EDID : 09F6 B748
LOCK : 09F6 B54A

POWER ON : 09F6 A15E
POWER OFF : 09F6 A25D

PRESS DESTINATION - # then PRESS SOURCE -

DESTINATION #1 : 09F6 10EF
DESTINATION #2 : 09F6 20DF
DESTINATION #3 : 09F6 30CF
DESTINATION #4 : 09F6 40BF
DESTINATION #5 : 09F6 50AF
DESTINATION #6 : 09F6 609F
DESTINATION #7 : 09F6 708F
DESTINATION #8 : 09F6 807F

SOURCE #1 : 09F6 01FE
SOURCE #2 : 09F6 02FD
SOURCE #3 : 09F6 03FC
SOURCE #4 : 09F6 04FB
SOURCE #5 : 09F6 05FA
SOURCE #6 : 09F6 06F9
SOURCE #7 : 09F6 07F8
SOURCE #8 : 09F6 08F7

ROOM REMOTE CONTROL #1 ~ #8 CUSTOM CODE AND DATA CODES

IR CUSTOM AND DATA CODES (NEC Standard)

PRESS Number To Select SOURCE

CUSTOM CODE : 09F6

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR01

IR-01 DATA CODE:

SOURCE #1 : 09F6 11EE
SOURCE #2 : 09F6 12ED
SOURCE #3 : 09F6 13EC
SOURCE #4 : 09F6 14EB
SOURCE #5 : 09F6 15EA
SOURCE #6 : 09F6 16E9
SOURCE #7 : 09F6 17E8
SOURCE #8 : 09F6 18E7

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR02

IR-02 DATA CODE:

SOURCE #1 : 09F6 21DE
SOURCE #2 : 09F6 22DD
SOURCE #3 : 09F6 23DC
SOURCE #4 : 09F6 24DB
SOURCE #5 : 09F6 25DA
SOURCE #6 : 09F6 26D9
SOURCE #7 : 09F6 27D8
SOURCE #8 : 09F6 28D7

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR03

IR-03 DATA CODE:

SOURCE #1 : 09F6 31CE
SOURCE #2 : 09F6 32CD
SOURCE #3 : 09F6 33CC
SOURCE #4 : 09F6 34CB
SOURCE #5 : 09F6 35CA
SOURCE #6 : 09F6 36C9
SOURCE #7 : 09F6 37C8
SOURCE #8 : 09F6 38C7

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR04

IR-04 DATA CODE:

SOURCE #1 : 09F6 41BE
SOURCE #2 : 09F6 42BD
SOURCE #3 : 09F6 43BC
SOURCE #4 : 09F6 44BB
SOURCE #5 : 09F6 45BA
SOURCE #6 : 09F6 46B9
SOURCE #7 : 09F6 47B8
SOURCE #8 : 09F6 48B7

ROOM REMOTE CONTROL

ROOM REMOTE CONTROL #1 ~ #8 CUSTOM CODE AND DATA CODES

IR CUSTOM AND DATA CODES (NEC Standard)

PRESS Number To Select SOURCE

CUSTOM CODE : 09F6

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR05

IR-05 DATA CODE:

SOURCE #1 : 09F6 51AE
SOURCE #2 : 09F6 52AD
SOURCE #3 : 09F6 53AC
SOURCE #4 : 09F6 54AB
SOURCE #5 : 09F6 55AA
SOURCE #6 : 09F6 56A9
SOURCE #7 : 09F6 57A8
SOURCE #8 : 09F6 58A7

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR06

IR-06 DATA CODE:

SOURCE #1 : 09F6 619E
SOURCE #2 : 09F6 629D
SOURCE #3 : 09F6 639C
SOURCE #4 : 09F6 649B
SOURCE #5 : 09F6 659A
SOURCE #6 : 09F6 6699
SOURCE #7 : 09F6 6798
SOURCE #8 : 09F6 6897

8x8 CAT5e/6 SWITCHER
SW-5688CT-IR07

IR-07 DATA CODE:

SOURCE #1 : 09F6 718E
SOURCE #2 : 09F6 728D
SOURCE #3 : 09F6 738C
SOURCE #4 : 09F6 748B
SOURCE #5 : 09F6 758A
SOURCE #6 : 09F6 7689
SOURCE #7 : 09F6 7788
SOURCE #8 : 09F6 7887

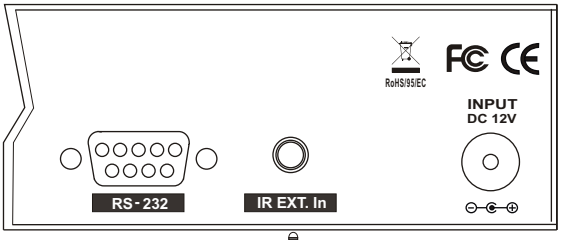
8x8 CAT5e/6 SWITCHER
SW-5688CT-IR08

IR-08 DATA CODE:

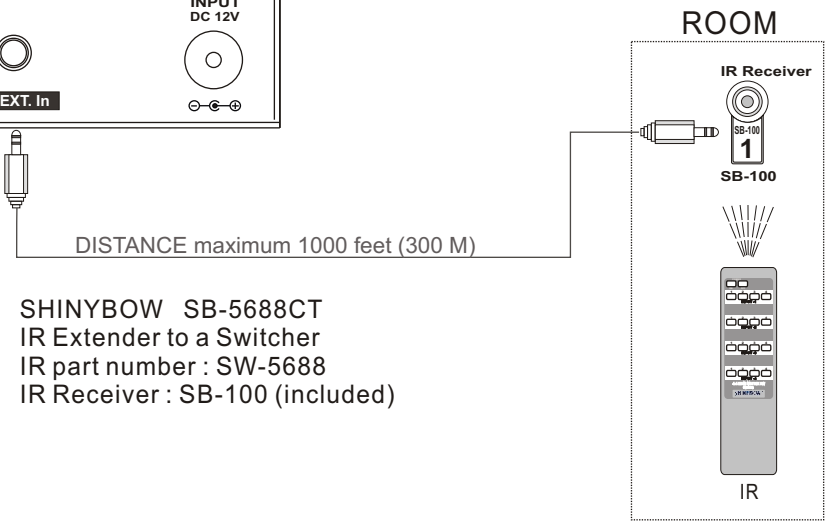
SOURCE #1 : 09F6 817E
SOURCE #2 : 09F6 827D
SOURCE #3 : 09F6 837C
SOURCE #4 : 09F6 847B
SOURCE #5 : 09F6 857A
SOURCE #6 : 09F6 8679
SOURCE #7 : 09F6 8778
SOURCE #8 : 09F6 8877

IR EXTENDER

REAR PANEL IR EXTENDER PORT



IR EXTENDER CONNECTION

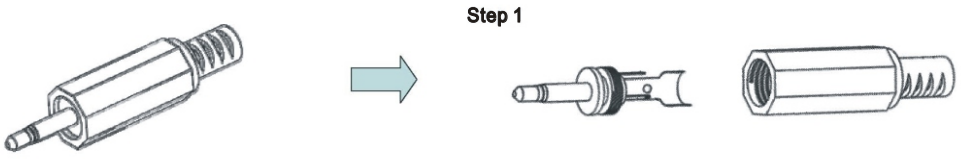


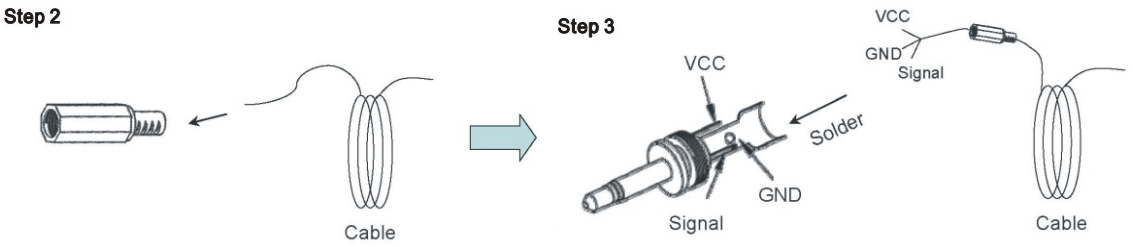
SHINYBOW SB-5688CT
IR Extender to a Switcher
IR part number : SW-5688
IR Receiver : SB-100 (included)

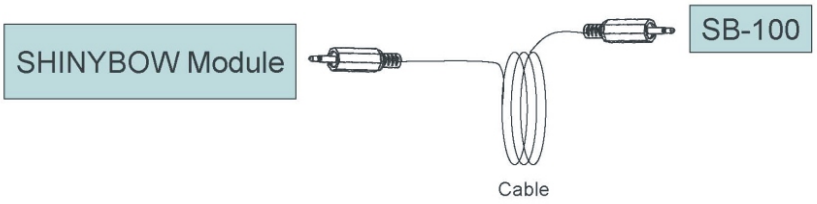
*** *When you plug the External IR extender into the switcher, the front panel IR receiver remains active.* ***

IR EXTENDER PACKAGE :

HOW TO SETUP THE IR EXTENDER COMPONENTS







CONSUMER ELECTRONICS CONTROL (CEC)

CONSUMER ELECTRONIC CONTROL (CEC)

In brief, CEC allows HDMI devices to control each other when necessary and allows the user to operate multiple devices with one remote control handset.

To Enable CEC

- Press **EDID** button
- Press **ALL** button
- Press **EDID** button The pre-set configuration will execute.

To Disable CEC

- Press **EDID** button
- Press **OFF** button
- Press **EDID** button The pre-set configuration will execute.

Not all device support CEC. Check with your Users Guide for additional information and specifications.

To ensure stable operation, HDMI connections should only be made with switcher powered OFF.

LIMITED WARRANTY

SHINYBOW WARRANTY

SHINYBOW Technology warrants this product against defects in materials and workman ship for a period of 3 year from the date of purchase.

Should this product, in SHINYBOW Technology's opinion, Prove defective within this warranty period, SHINYBOW Technology, at its option, repair this product without charge, to whatever extent it shall deem necessary to restore said product to proper operation condition.

This warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, and abnormal operating condition or non-SHINYBOW Technology authorized modification to the product.

If repairs are necessary under the warranty policy, the original purchaser must return the product to local distributor, freight prepaid.

After repairs are complete, the product will be returned.

REGULATORY COMPLIANCE

The product complies with the relevant standards for CE, FCC and RoHS approval.

The power Adaptor/Supply has been tested for compliance with UL.CSA and CE standards.

TROUBLESHOOTING

If you experience a <no signal> with this switcher or distributor outputs, first make certain that the signal being fed to its inputs is acceptable.

Disconnect the cables from the this switcher or distributor inputs and connect them directly to an appropriate monitoring device, if you do not see or hear a signal the problem may well be he signal source itself. Also check that the AC outlet you have used to power the switcher or distributor is actually providing power as a wall switch often controls an AC outlet.

The second most common problem with this switcher or distributor revolves around the cables, Inspect the cables for loose connectors or cable damage such as crushed cable or cables with cuts or nicks. Replace any cable exhibiting these problem.

You also must use the highest quality cables if you want to achieve the best results. Poor quality cables provide will poor quality signals.

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